Appendix B. SAR Measurement Plots

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Test Laboratory: HUAWEI SAR Lab

U2801-53 GSM850 190CH Left Hand Touched cheek with battery BAAB830XB1446108

DUT: U2801-53; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1

Communication System: HW-GSM/GPRS/EDGE 1TS; Frequency: 836.6 MHz
Medium parameters used: f = 837 MHz; σ = 0.922 mho/m; ε_r = 41.803; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(9.46, 9.46, 9.46); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

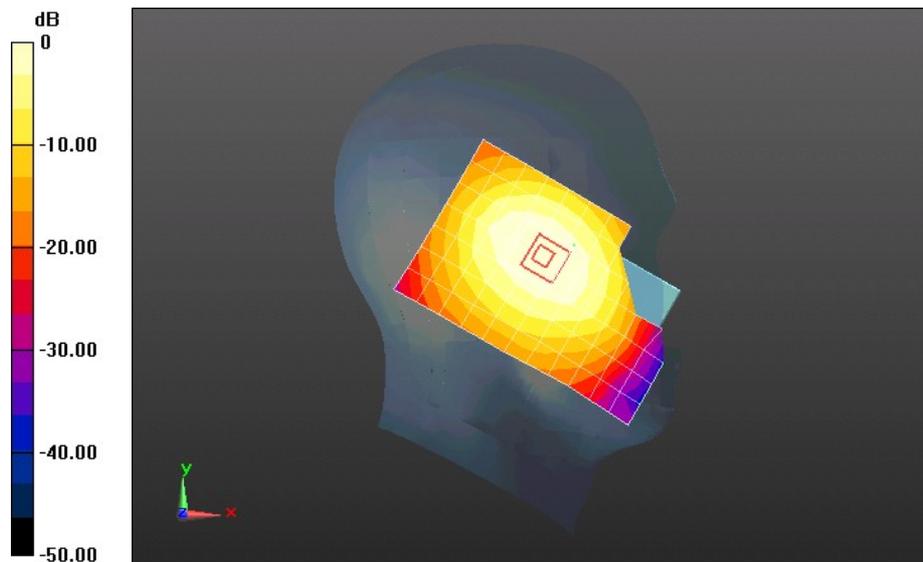**Configuration/Head/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.10 mW/g

Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.987 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.309 mW/g
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.761 mW/g

0 dB = 1.10 mW/g = 0.79 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U2801-53 GSM850 190CH Left Hand Touched cheek with battery GAGBC08L75229770

DUT: U2801-53; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1

Communication System: HW-GSM/GPRS/EDGE 1TS; Frequency: 836.6 MHz
Medium parameters used: f = 837 MHz; σ = 0.922 mho/m; ε_r = 41.803; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(9.46, 9.46, 9.46); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Head/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
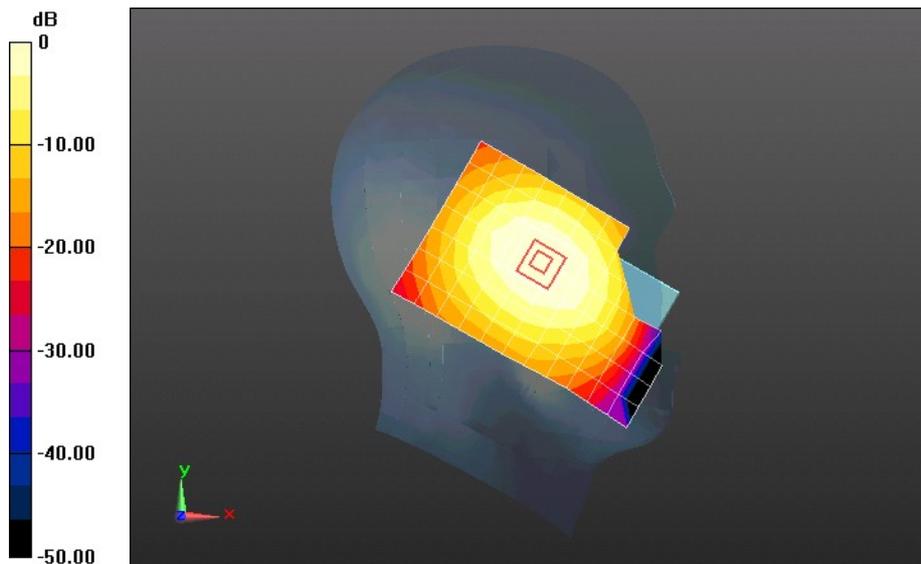Maximum value of SAR (measured) = 1.06 mW/g

Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.250 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.290 mW/g
SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.746 mW/g
Maximum value of SAR (measured) = 1.08 mW/g

0 dB = 1.06 mW/g = 0.54 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U2801-53 GSM850 GPRS 2TS 128CH Towards Ground 15mm with battery BAAB830XB1446108

DUT: U2801-53; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1

Communication System: HW-GSM/GPRS/EDGE 2TS; Frequency: 824.2 MHz
Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.979 mho/m; $ε_r$ = 53.254; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(9.64, 9.64, 9.64); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.04 mW/g

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
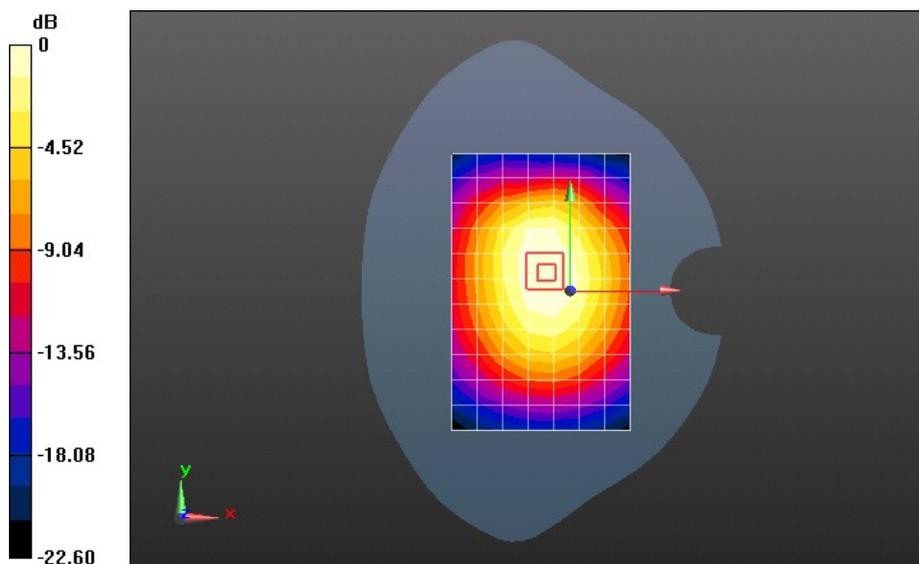Reference Value = 32.193 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.287 mW/g
SAR(1 g) = 1.000 mW/g; SAR(10 g) = 0.730 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.06 mW/g

0 dB = 1.04 mW/g = 0.36 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U2801-53 GSM850 GPRS 2TS 128CH Towards Ground 15mm with battery GAGBC08L75229770

DUT: U2801-53; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1

Communication System: HW-GSM/GPRS/EDGE 2TS; Frequency: 824.2 MHz
Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.979 mho/m; ε_r = 53.254; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(9.64, 9.64, 9.64); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.01 mW/g

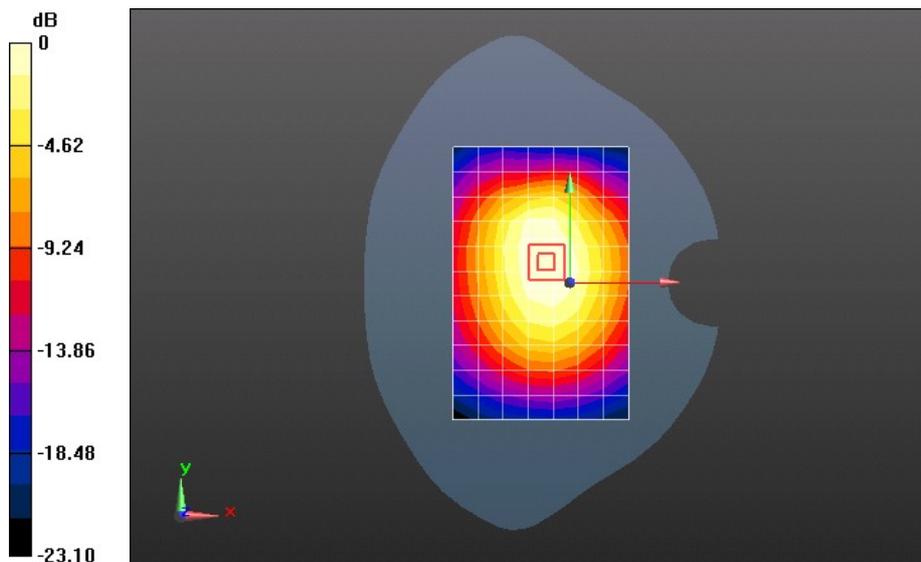**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.595 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.236 mW/g
SAR(1 g) = 0.959 mW/g; SAR(10 g) = 0.701 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.02 mW/g

0 dB = 1.01 mW/g = 0.10 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U2801-53 GSM1900 661CH Right Hand Touched cheek with battery BAAB830XB1446108

DUT: U2801-53; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1

Communication System: HW-GSM/GPRS/EDGE 1TS; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.409 mho/m; ε_r = 39.351; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(8.33, 8.33, 8.33); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Head/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
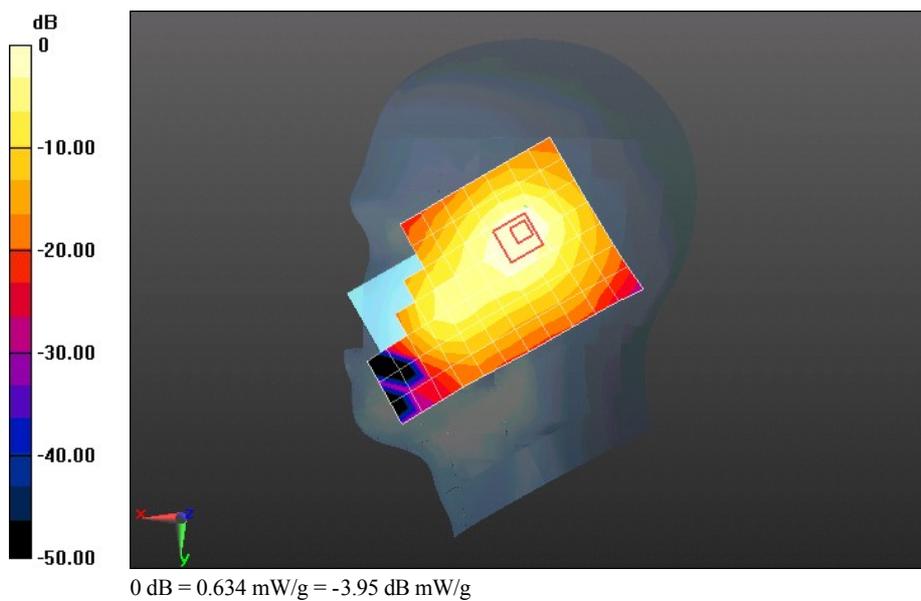Maximum value of SAR (measured) = 0.634 mW/g

Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.863 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.100 mW/g
SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.327 mW/g
Maximum value of SAR (measured) = 0.667 mW/g

0 dB = 0.634 mW/g = -3.95 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U2801-53 GSM1900 661CH Right Hand Touched cheek with battery GAGBC08L75229770

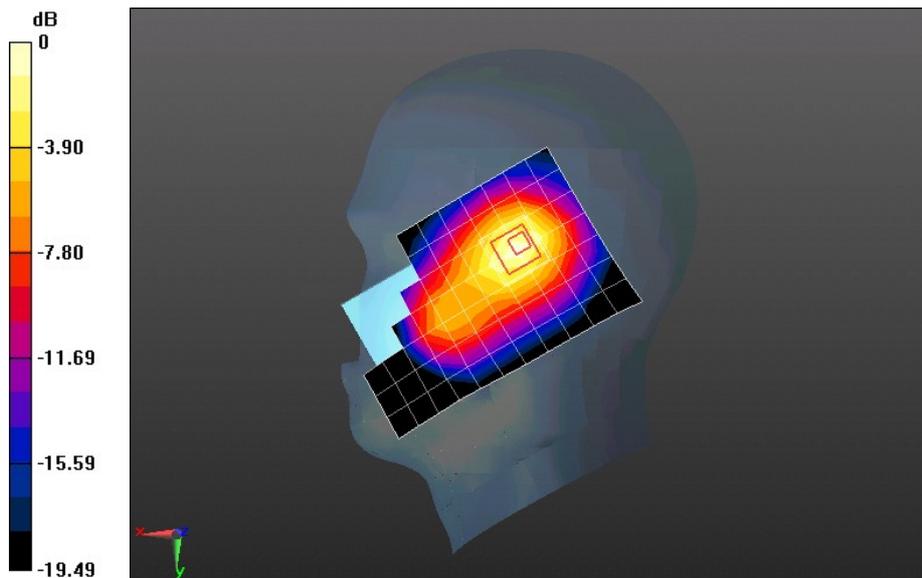**DUT: U2801-53; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1**

Communication System: HW-GSM/GPRS/EDGE 1TS; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.409 mho/m; ε_r = 39.351; ρ = 1000 kg/m^3
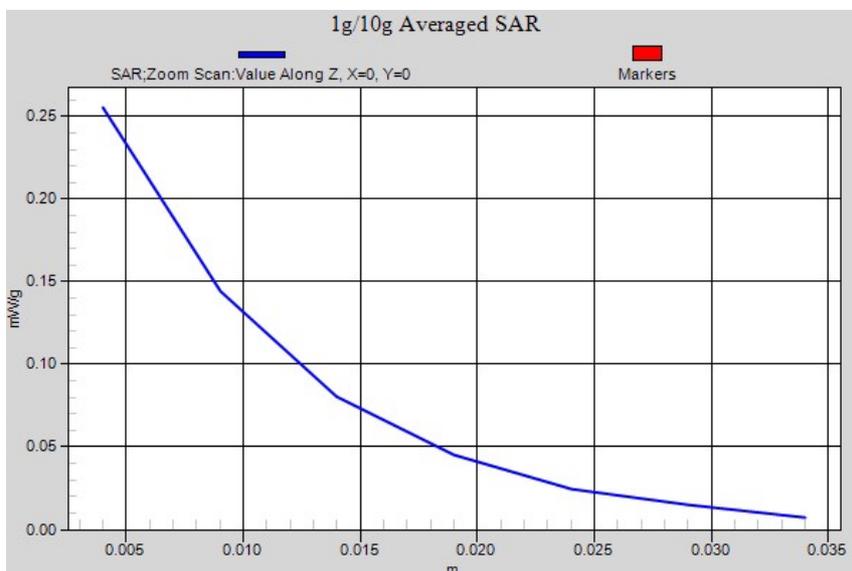Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(8.33, 8.33, 8.33); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Head/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.646 mW/g

Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.200 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.129 mW/g
SAR(1 g) = 0.623 mW/g; SAR(10 g) = 0.337 mW/g
Maximum value of SAR (measured) = 0.687 mW/g

0 dB = 0.687 mW/g = -3.26 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U2801-53 GSM1900 GPRS 2TS 661CH Towards Ground 15mm with battery BAAB830XB1446108

DUT: U2801-53; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1

Communication System: HW-GSM/GPRS/EDGE 2TS; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.546 mho/m; ε_r = 53.069; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.89, 7.89, 7.89); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
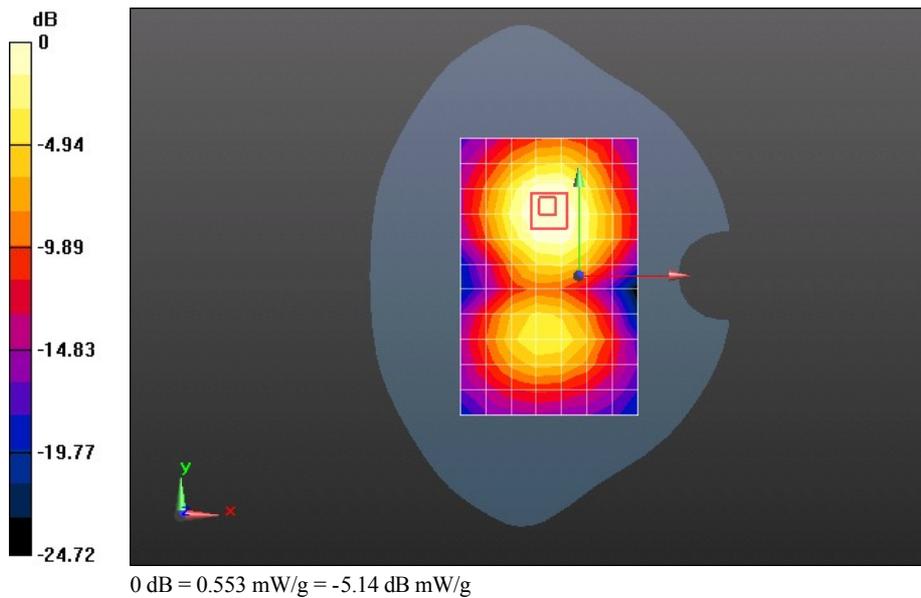Maximum value of SAR (measured) = 0.553 mW/g

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.151 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.864 mW/g
SAR(1 g) = 0.540 mW/g; SAR(10 g) = 0.331 mW/g
Maximum value of SAR (measured) = 0.582 mW/g

0 dB = 0.553 mW/g = -5.14 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U2801-53 GSM1900 GPRS 2TS 661CH Towards Ground 15mm with battery GAGBC08L75229770

DUT: U2801-53; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1

Communication System: HW-GSM/GPRS/EDGE 2TS; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.546 mho/m; ε_r = 53.069; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.89, 7.89, 7.89); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
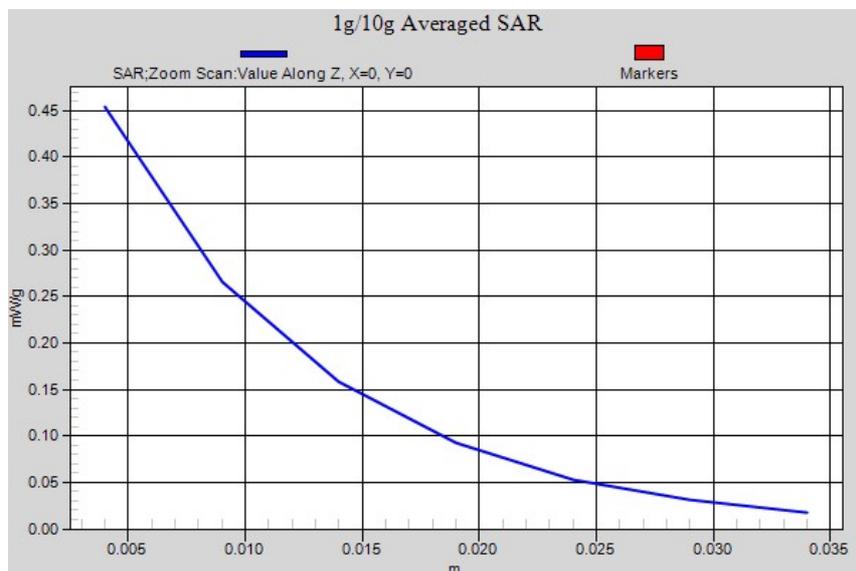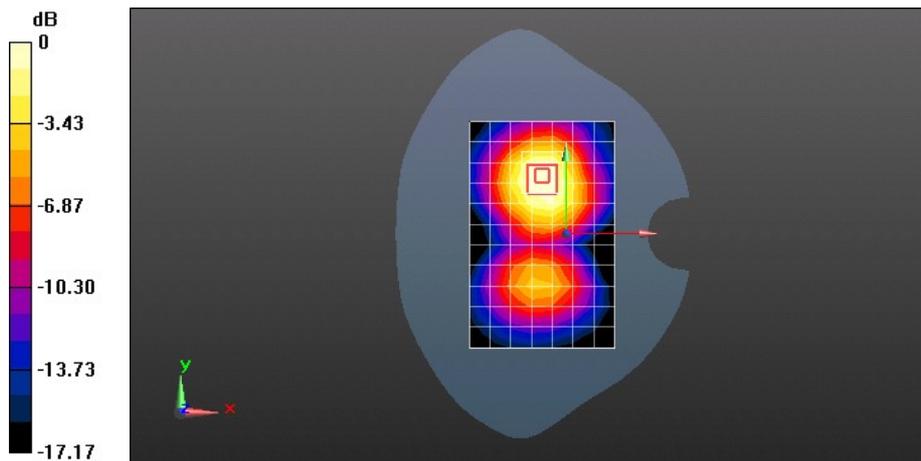Maximum value of SAR (measured) = 0.566 mW/g

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.514 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.908 mW/g
SAR(1 g) = 0.564 mW/g; SAR(10 g) = 0.343 mW/g
Maximum value of SAR (measured) = 0.606 mW/g

0 dB = 0.606 mW/g = -4.35 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U2801-53 WCDMA1900 9538CH Right hand tilt 15 degree with battery BAAB830XB1446108

DUT: U2801-53; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1
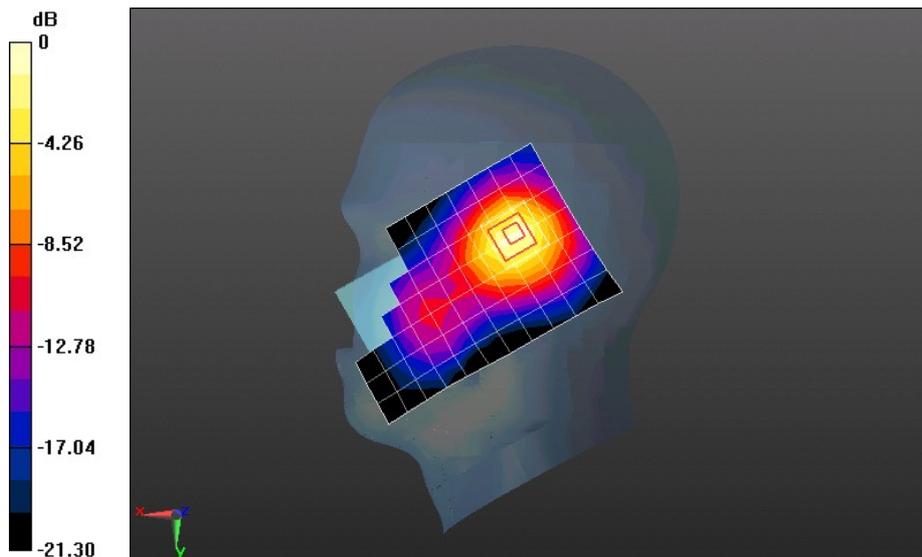
Communication System: HW-UMTS-FDD; Frequency: 1907.6 MHz
Medium parameters used: f = 1908 MHz; σ = 1.427 mho/m; ε_r = 39.262; ρ = 1000 kg/m^3
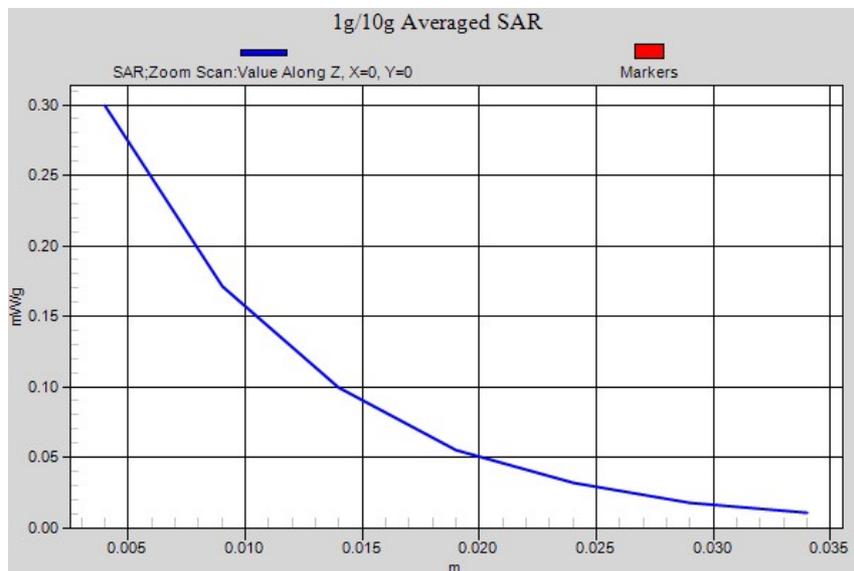Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(8.33, 8.33, 8.33); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Head/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.15 mW/g

Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.769 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.409 mW/g
SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.620 mW/g
Maximum value of SAR (measured) = 1.38 mW/g

0 dB = 1.38 mW/g = 2.80 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U2801-53 WCDMA1900 9538CH Right hand tilt 15 degree with battery GAGBC08L75229770

DUT: U2801-53; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1

Communication System: HW-UMTS-FDD; Frequency: 1907.6 MHz
Medium parameters used: f = 1908 MHz; σ = 1.427 mho/m; ε_r = 39.262; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(8.33, 8.33, 8.33); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Head/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
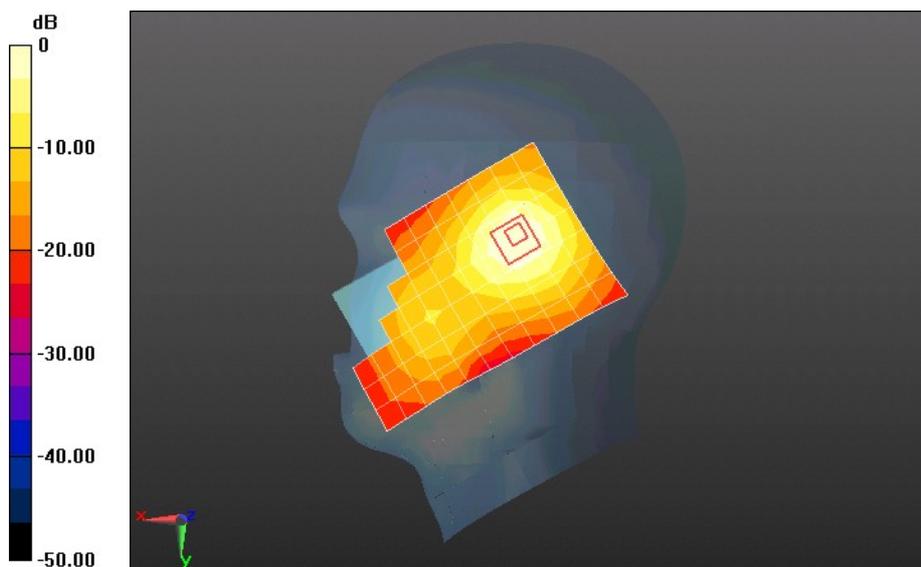Maximum value of SAR (measured) = 1.16 mW/g

Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.024 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 2.410 mW/g
SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.617 mW/g
Maximum value of SAR (measured) = 1.32 mW/g

0 dB = 1.16 mW/g = 1.26 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U2801-53 WCDMA1900 9400CH Towards Ground 10mm with Battery SN- BAAB830XB1446108

DUT: U8667; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1

Communication System: HW-UMTS-FDD; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.546 mho/m; ε_r = 53.069; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.89, 7.89, 7.89); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
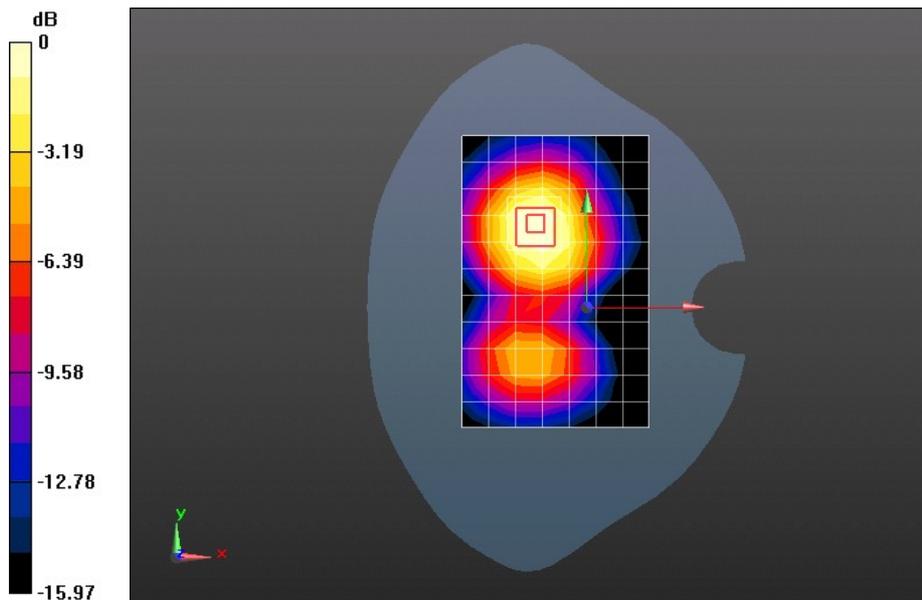Maximum value of SAR (measured) = 0.856 mW/g

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
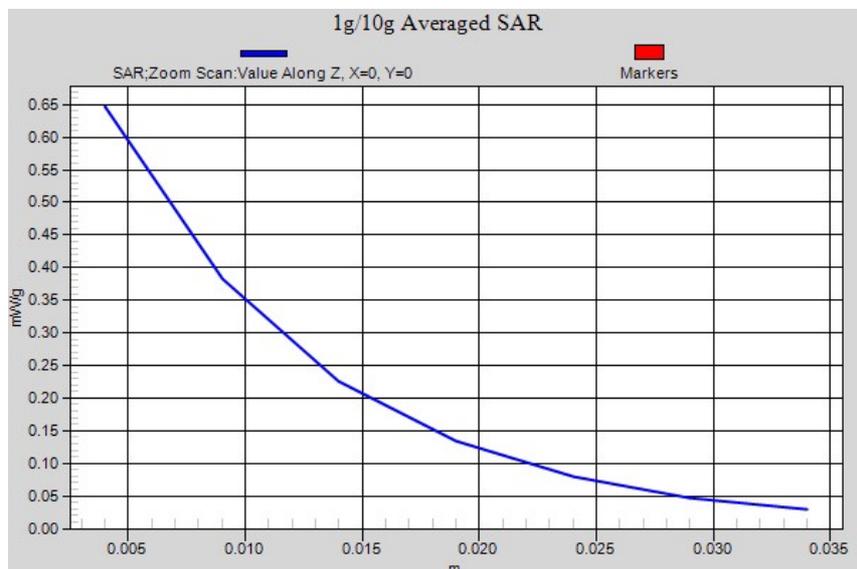Reference Value = 7.502 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.294 mW/g
SAR(1 g) = 0.808 mW/g; SAR(10 g) = 0.495 mW/g
Maximum value of SAR (measured) = 0.862 mW/g

0 dB = 0.862 mW/g = -1.29 dB mW/g

Test Laboratory: HUAWEI SAR Lab

U2801-53 WCDMA1900 9400CH Towards Ground 15mm with Battery SN- GAGBC08L75229770

DUT: U2801-53; Type: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;; Serial: SAR1

Communication System: HW-UMTS-FDD; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.546 mho/m; ε_r = 53.069; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.89, 7.89, 7.89); Calibrated: 1/27/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn679; Calibrated: 12/23/2011
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.738 mW/g

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.003 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.148 mW/g
SAR(1 g) = 0.710 mW/g; SAR(10 g) = 0.433 mW/g
Maximum value of SAR (measured) = 0.761 mW/g

0 dB = 0.738 mW/g = -2.64 dB mW/g